

WHAT IS CLAIMED IS:

1. A three-dimensional data input method for inputting three-dimensional data using a three-dimensional data input apparatus that is constructed to input the three-dimensional data of an object displayed on a monitor screen by shooting the object, the method comprising the steps of:

generating image data of the three-dimensional shape model in accordance with the three-dimensional data inputted from a part of the object, the image corresponding to the shape of the three-dimensional data;

displaying the image of the three-dimensional shape model on the monitor screen as a guide image for framing;

performing the framing so that the guide image is overlapped on the image of the object image that corresponds to the guide image; and

shooting the object after the framing is performed.

2. A three-dimensional data input apparatus for obtaining three-dimensional data of an object by shooting the object, the apparatus comprising:

a monitor for displaying the object;

an image generator for generating a three-dimensional model image of the object in accordance with the three-dimensional data of the object obtained by the shooting; and

a display controller for displaying the three-dimensional model image as a guide image on the monitor for framing.

3. The three-dimensional data input apparatus according to claim 2, further comprising a memory for memorizing the three-dimensional data of the object obtained

by the shooting.

4. The three-dimensional data input apparatus according to claim 3, wherein the image generator generates the three-dimensional model image in accordance with the data memorized in the memory.

5. A three-dimensional data input method of using a three-dimensional data input apparatus that is constructed to input the three-dimensional data of a portion of an object displayed on a monitor screen by shooting the object, the method comprising the steps of:

displaying an image of a three-dimensional shape model having a shape substantially identical to the object as a guide image for framing on the monitor screen;

framing in accordance with the guide image; and shooting the object after the framing is performed.

6. The three-dimensional data input method according to claim 5, further comprising the steps of matching the image of the input portion with the guide image so that the scale of the guide image agrees the scale of the object.

7. The three-dimensional data input method according to claim 5, wherein the shooting is performed for plural positions different from each other for the object.

8. The three-dimensional data input method according to claim 5, wherein the image of the three-dimensional shape model is retrieved from the memory.

9. The three-dimensional data input method according to claim 8, wherein a plurality of the image of the three-dimensional shape model is memorized.

10. A three-dimensional data input method of using a three-dimensional data input apparatus that is constructed

to input the three-dimensional data of a portion of an object displayed on a monitor screen by shooting the object, the method comprising the steps of:

memorizing attribute information in a memory, the attribute information being about data of a three-dimensional shape model having a shape that is substantially the same as the shape of the object and a position for observing the three-dimensional shape model;

displaying the image of the three-dimensional shape model as a guide image for framing on the monitor screen in accordance with the attribute information;

framing so that the image of the input portion is overlapped on the guide image; and

shooting the object after the framing is performed.

11. The three-dimensional data input method according to claim 10, further comprising the step of matching the image of the input portion with the guide image, so that the scale of the guide image agrees the scale of the object.

12. The three-dimensional data input method according to claim 10, wherein the shooting is performed for plural positions different from each other for the object.

13. A three-dimensional data input apparatus for obtaining three-dimensional data of an object by shooting the object, the apparatus comprising:

a monitor for displaying the object;

a first memory for memorizing an attribute information about data of a three-dimensional shape model having a shape that is similar to the shape of the object and a position for observing the three-dimensional shape model; and

a display controller for displaying the image of the

three-dimensional shape model as a guide image for scaling on the monitor in accordance with the attribute information.

14. The three-dimensional data input apparatus according to claim 13, further comprising a processor for matching the image of the object with the guide image and scale changing means for changing the scale of the guide image in accordance with the matching.

15. The three-dimensional data input apparatus according to claim 13, further comprising a second memory for memorizing three-dimensional data of the shot object.

16. The three-dimensional data input apparatus according to claim 15, wherein the image generator generates a three-dimensional model image in accordance with the data memorized in the second memory.

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